

Discovery 2019 Announcement of Opportunity Program Library Change Log

This document may be found in the Discovery Program Library (DPL), at <http://discovery.larc.nasa.gov/dpl.html>, by selecting “DPL Change Log”.

Note: If a document is posted out of sequence or is revised, it will be indicated via highlighting in this log.

July 23, 2020:

Discovery_2019_Phase_A_Guidelines_and_Criteria_Amendment_22_July_2020.pdf posted as an update to Program Specific Documents item “4. [[Guidelines and Criteria for the Phase A Concept Study](#)]”.

June 15, 2020:

Discovery_2019_Phase_A_Guidelines_and_Criteria_Amendment_27_May_2020_Final_Approved.pdf posted as an update to Program Specific Documents item “4. [[Guidelines and Criteria for the Phase A Concept Study](#)]”.

May 19, 2020:

Sample International Agreements posted as Program Specific Documents “32. Sample International Agreements”

Space Systems Protection Frequently Asked Questions posted as Program Specific Documents item “33. [[Space Systems FAQs](#)]”

April 1, 2020:

Discovery_2019_Phase_A_Guidelines_and_Criteria_Final_rev3_01Apr2020.pdf posted as an update to Program Specific Documents item “4. [[Guidelines and Criteria for the Phase A Concept Study](#)]”.

March 24, 2020: Conflicted Parties List Template posted as Program Specific Documents item “31. [[Conflicted Parties List Template](#)]”.

March 23, 2020: SPD-31-Student-Collaboration-May-2018.pdf posted as Program Specific Documents item “30. [[SPD-31, Student Collaboration](#)]”.

March 23, 2020: nasa-std-1006.pdf posted as NASA and Federal Documents item “20. [[NASA STD 1006, NASA Space System Protection Standard](#)]”.

March 23, 2020: Discovery_2019_Phase_A_Guidelines_and_Criteria_Final_rev2.pdf posted as an update to Program Specific Documents item “4. [[Guidelines and Criteria for the Phase A Concept Study](#)]”

February 20, 2020: Discovery_2019_Phase_A_Guidelines_and_Criteria_Final_rev1.pdf posted as an update to Program Specific Documents item “4 [[Guidelines and Criteria for the Phase A Concept Study](#)]” to correct the contact for Launch Services Program support.

February 19, 2020: [Discovery_2019_Phase_A_Guidelines_and_Criteria_Final.pdf](#) posted as an update to Program Specific Documents item “4 [Guidelines and Criteria for the Phase A Concept Study](#)”, the name of which was also updated to reflect the document’s final status.

February 19, 2020: Adjusted Change Log entries for Program Specific Documents items including and after “14. [Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Proposal Details and Programmatic Structure](#)” to reflect that they are additions to those listed in the AO. Adjusted Change Log entries for NASA and Federal Documents items after “16. [\[Presidential Policy Directive PPD-26, National Space Transportation Policy, dated November 21, 2013\]](#)” to reflect that they are additions to those listed in the AO.

May 21, 2019: [29_HEEET-1004_DDB_Executive_Summary-signed.pdf](#) posted as Program Specific Documents item “29. [\[HEEET Project Final Report — Executive Summary for Design Data Book\]](#)”.

May 21, 2019: [28_HEEET_Highlights_5.17.2019.pdf](#) posted as Program Specific Documents item “28. [\[HEEET: Innovative New TPS for Extreme Entry\]](#)”.

May 21, 2019:

[04_DRAFT_Discovery_2019_Phase_A_Guidelines_and_Criteria_20190521.pdf](#) posted as Program Specific Documents item “4. [\[DRAFT\] Guidelines and Criteria for the Phase A Concept Study](#)”.

May 16, 2019: [15a_Discovery_2019_ESI_Goals_and_Objectives_20190514.pdf](#) posted as an update to Program Specific Documents item “15. [\[Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Goals and Objectives\]](#)”.

May 16, 2019: [14a_Discovery_2019_ESI_Programmatics_20190514.pdf](#) posted as an update to Program Specific Documents item “14. [\[Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Proposal Details and Programmatic Structure\]](#)”.

May 8, 2019: [27_Final_RHU_Fact_Sheet_2016_5-19-Mission_Planner.pdf](#) posted as Program Specific Documents item “27. [\[Radioisotope Heater Unit \(RHU\) Fact Sheet\]](#)”.

May 8, 2019: [26_MMRTG_Fact_Sheet_update_5-7-19-Mission_Planner.pdf](#) posted as Program Specific Documents item “26. [\[Multi-Mission Radioisotope Thermoelectric Generator \(MMRTG\) Fact Sheet\]](#)”.

April 24, 2019: [19_N_PD_8610_007D_main.pdf](#) posted as NASA and Federal Documents item “19. [\[NPD 8610.7D, NASA Launch Services Risk Mitigation Policy for NASA-Owned and/or NASA-Sponsored Payloads/Missions\]](#)”.

April 24, 2019: 18_N_PD_8610_023C__main.pdf posted as NASA and Federal Documents item “18. [NPD 8610.23C, [Launch Vehicle Technical Oversight Policy](#)]”.

April 24, 2019: 17_N_PD_1360_002B__main.pdf posted as NASA and Federal Documents item “17. [NPD 1360.2B, [Initiation and Development of International Cooperation in Space and Aeronautics Programs](#)]”.

April 24, 2019: Removed 16_national_space_transportation_policy_11212013.pdf and struck through the associated NASA and Federal Documents item “16. [[Presidential Policy Directive PPD-26, National Space Transportation Policy, dated November 21, 2013](#)]” as it is not relevant to this opportunity.

April 24, 2019: 25_2017_nasa_new_start_inflation_index_for_fy18_use_final_dist.xlsx posted as Program Specific Documents item “25. [[NASA FY17 Inflation Tables - to be utilized in FY18](#)]”.

April 24, 2019: 24_Budget-Summary-Form.pdf posted as Program Specific Documents item “24. [[Discovery Budget Summary, Exhibit A](#)]”.

April 24, 2019: 23_ELT_-_Discovery_2019_AO_-_Rev_190408.pdf posted as Program Specific Documents item “23. [[Electra-Lite Mars Proximity-Link Communications and Navigation Payload Description](#)]”.

April 24, 2019: 22_EUT_-_Discovery_2019_AO_-_Rev_190408.pdf posted as Program Specific Documents item “22. [[Electra Mars Proximity-Link Communications and Navigation Payload Description](#)]”.

April 24, 2019: 21_Proposers_Guide_To_Mars_Orbiters_-_Discovery_2019_AO_-_Rev_190411b.pdf posted as Program Specific Documents item “21. [[Mars Relay Description for Discovery 2019 Proposals](#)]”.

April 24, 2019: 20_handbook_sffas_4.pdf posted as Program Specific Documents item “20. [[Statement of Federal Financial Accounting Standards 4: Managerial Cost Accounting Standards and Concepts](#)]”.

April 24, 2019: 19_D-37294.pdf posted as Program Specific Documents item “19. [[Sample Return Primer and Handbook](#)]”.

April 24, 2019: 18_PV_heatshield.pdf posted as Program Specific Documents item “18. [[Analysis of the Heat-Shield Experiment on the Pioneer-Venus Entry Probes](#)]”.

April 24, 2019: 17_mercury_flight_test.pdf posted as Program Specific Documents item “17. [[Entry Performance of the Mercury Spacecraft Heat Shield](#)]”.

April 24, 2019: 16_ct_scan_stardust.pdf posted as Program Specific Documents item

“16. [[X-Ray Computed Tomography Inspection of the Stardust Heat Shield](#)]”.

April 24, 2019: 15_EDL_Instrumentation_ESI_GO_061514_Final.pdf posted as Program Specific Documents item “15. [[Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Goals and Objectives](#)]”. Note that this is an interim document.

April 24, 2019: 14_EDL_Instrumentation_ESI_programmatics_070214.pdf posted as Program Specific Documents item “14. [[Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Proposal Details and Programmatic Structure](#)]”. Note that this is an interim document.

April 24, 2019: 13_Model_Contract.pdf posted as Program Specific Documents item “13. [Draft Model Contract for Phases B/C/D/E](#)”.

April 24, 2019: 11_Discovery_2019_AO_TablesB1-2-3a-3b-5excel_20190220.xls posted as Program Specific Documents item “11. [Microsoft Excel version of the template tables in the AO.](#)”.

April 24, 2019: Note the decrement by one of Program Specific Documents item numbers for items “7. [Space Communications and Navigation \(SCaN\) Mission Operations and Communications Services \(MOCS\)](#)” to “13. [Draft Model Contract for Phases B/C/D/E](#)” between DRAFT and final AOs.

April 24, 2019: 06_Available_Spectrum_and_Channel Limits_By_Allocated_Service.pdf posted as Program Specific Documents item “6. [Available Spectrum and Channel Limits By Allocated Service](#)”.

April 24, 2019: 05b_ELV_Launch_Service Information Summary Final r2 4-9-2019_with_redlines.pdf posted as an update to Program Specific Documents item “5. [ELV Launch Services Information Summary](#)”. Change of “baseline” service to “High” performance with a 5-m fairing had no impact on environments. Also, note change in costing requirements to align with the AO.

April 24, 2019: Removed 03B_PMPO_Program_Plan_10-10-14_Change_1_12-18-15.pdf and struck through the associated Program Specific Documents item “3. [...] [~~and DISC-PLAN-006B, Discovery Program Office Safety and Mission Assurance Implementation Plan~~]” as it was redundant with 01_PMPO_Program_Plan_signed_Dec_2015.PDF posted as Program Specific Documents item “1. PMP-PLAN-001, [Planetary Missions Program Plan](#)”.

April 24, 2019: 03a_PMP-RQMT-002_PMPO_SMA_Guidelines_and_Requirements.pdf posted as an update to Program Specific Documents item “3. DISC-RQMT-002[Baseline], [[Planetary Missions](#)] [Program](#) [[Office](#)] [Safety and Mission Assurance Guidelines and Requirements](#) document”, the name of which was also updated.

April 24, 2019: 05_SBAG_GoalsDoc_ver.1.2.2016.pdf posted as Program Analysis Group Reports item “5. [*\[Goals and Objectives for the Exploration and Investigation of the Solar System’s Small Bodies\]*](#)”.

April 24, 2019: 04a_goals-09-05-18.pdf posted as an update to Program Analysis Group Reports item “4. [*Scientific Goals for Exploration of the Outer Solar System*](#)”.

April 24, 2019: 03a_MEPEG_Goals_Document_2018.pdf posted as an update to Program Analysis Group Reports item “3. [*Mars Science Goals, Objectives, Investigations, and Priorities: 201\[8 Version\]*](#)”.

April 24, 2019: 02a_LER-2016.pdf posted as an update to Program Analysis Group Reports item “2. [*The Lunar Exploration Roadmap: Exploring the Moon in the 21st Century: Themes, Goals, Objectives, Investigations, and Priorities, 201\[6\]*](#)”.

April 24, 2019: 01a_GOI_Draft_2019March10.pdf posted as an update to Program Analysis Group Reports item “1. [*Goals, Objectives, and Investigations for Venus Exploration*](#)”.

April 24, 2019: Release of the final Discovery 2019 AO has resulted in a re-baselining of the Program Library. Any subsequent changes from the listing in APPENDIX D of the AO will be square bracketed.

March 22, 2019: 08a_SCaN-MOCS-0001_Rev 2_final.pdf posted as an update to Program Specific Documents item “8. [*Space Communications and Navigation \(SCaN\) Mission Operations and Communications Services \(MOCS\)*](#)”.

March 22, 2019: 05a_Discovery_2019_Launch_Service_Info_Summary_20190321.pdf posed as an update to Program Specific Documents item “5. [*ELV Launch Services Information Summary*](#)” that corrects the legend for Figure 8.

March 20, 2019: No link posted for Program Specific Documents item “6. [*\[NASA Launch Services Program \(LSP\) Advisory Services Plan\]*](#)”, as it does not apply to this opportunity.

March 20, 2019: 05_Discovery_2019_Launch_Service_Info_Summary_20190313.pdf posted as Program Specific Documents item “5. [*ELV Launch Services Information Summary*](#)”.

March 20, 2019: Correction of bracketing that documented changes from the DRAFT AO text, as indicated below. Elimination of a placeholder links. Typo correction of an instance of “Nasa”.

December 20, 2018: Link to AO-referenced Executive Order 11246 added as “Executive Order 11246, “Equal employment opportunity” (see <https://www.archives.gov/federal->

[register/codification/executive-order/11246.html](#))”. Item should have been square bracketed, due to being a change from the DRAFT AO text.

December 20, 2018: AO-referenced Federal Acquisition Regulations part 22.808 added as “FAR 22.808, “Complaints””. Item should have been square bracketed, due to being a change from the DRAFT AO text.

December 14, 2018: 4_opag_goals_doc_8_16_2014b.pdf posted as [Program Analysis Group Reports] item “[4. [Scientific Goals for Exploration of the Outer Solar System](#)]”.

December 14, 2018: 3_MEPAG_Goals_Document_2010_v17.pdf posted as [Program Analysis Group Reports] item “[3. [Mars Science Goals, Objectives, Investigations, and Priorities: 2010](#)]”.

December 14, 2018: 2_LER-Version-1-1.pdf posted as [Program Analysis Group Reports] item “[2. [The Lunar Exploration Roadmap: Exploring the Moon in the 21st Century: Themes, Goals, Objectives, Investigations, and Priorities, 2011](#)]”.

December 14, 2018: 1_VEXAG_Goals_Document_2014.pdf posted as [Program Analysis Group Reports] item “[1. [Goals, Objectives, and Investigations for Venus Exploration](#)]”.

December 12, 2018: Updated link for accessing United States Code (USC) from that in the DRAFT AO to “[<https://www.govinfo.gov>]”.

December 12, 2018: 16_national_space_transportation_policy_11212013.pdf posted as Nasa [sic] and Federal Documents item “[[Presidential Policy Directive PPD-26, National Space Transportation Policy, dated November 21, 2013](#)]”.

December 12, 2018:
15_[NASA_Plan_for_Increasing_Access_to_the_Results_of_Scientific_Research_]2015_0020926.pdf posted as Nasa [sic] and Federal Documents item “[15. [NASA Plan for Increasing Access to the Results of Scientific Research](#)]”.

December 12, 2018: 14_N_PR_2200_002D_.pdf posted as Nasa [sic] and Federal Documents item “[14. NPR 2200.2D, [Requirements for Documentation, Approval and Dissemination of Scientific and Technical Information](#)]”.

December 12, 2018: 13_N_PD_2521_001B__main.pdf posted as Nasa [sic] and Federal Documents item “[13. NPD 2521.1B, [Communications and Material Review](#)]”.

December 12, 2018: 12_N_PR_8705_0004_.pdf posted as Nasa [sic] and Federal Documents item “[12. NPR 8705.4, [Risk Classification for NASA Payloads](#)]”.

December 12, 2018: 11_N_PR_8715_003D_.pdf posted as Nasa [sic] and Federal Documents item “11. NPR 8715.3D, [NASA General Safety Program Requirements](#)”.

December 12, 2018: 10_nasa-std-8719.14a_with_change_1.pdf posted as Nasa [sic] and Federal Documents item “10. NASA STD 8719.14A, [NASA Process for Limiting Orbital Debris](#)”.

December 12, 2018: 09_N_PR_8715_006B_.pdf posted as Nasa [sic] and Federal Documents item “9. NPR 8715.6B, [NASA Procedural Requirements for Limiting Orbital Debris](#)”.

December 12, 2018: 08_[NASA_WBS_Handbook_]20180000844.pdf posted as Nasa [sic] and Federal Documents item “8. NASA/SP-201[6]-3404[REV1], [NASA WBS Handbook](#)”.

December 12, 2018: 07_MSRRdraftTestProtocol.pdf posted as Nasa [sic] and Federal Documents item “7. NASA/CP 2002 211842, [A Draft Test Protocol for Detecting Possible Biohazards in Martian Samples Returned to Earth](#)”.

December 12, 2018: 06_NASA-HDBK-6022b.pdf posted as Nasa [sic] and Federal Documents item “6. NASA HDBK 6022, [NASA Handbook for the Microbiological Examination of Space Hardware](#)”.

December 12, 2018: 05_N_PD_7100_010F__main.pdf posted as Nasa [sic] and Federal Documents item “5. NPD 7100.10F, [Curation of Institutional Scientific Collections](#)”.

December 12, 2018: 04_N_PD_8020_007G__main.pdf posted as Nasa [sic] and Federal Documents item “4. NPD 8020.7G, [Biological Contamination Control for Outbound and Inbound Planetary Spacecraft](#)”.

December 12, 2018: 03_NID_8020_109A.pdf posted as Nasa [sic] and Federal Documents item “3. NPR 8020.109[A], [Planetary Protection Provisions for Robotic Extraterrestrial Missions](#)”.

December 12, 2018: 02_N_PR_7123_001B_.pdf posted as Nasa [sic] and Federal Documents item “2. NPR 7123.1B, [NASA Systems Engineering Processes and Requirements](#)”.

December 12, 2018: 01_N_PR_7120_005E_.pdf posted as Nasa [sic] and Federal Documents item “1. NPR 7120.5E, [NASA Space Flight Program and Project Management Requirements](#)”.

December 12, 2018: Placeholder posted for as Program Specific Documents item “14. *Draft Model Contract for Phases B/C/D/E*”.

December 12, 2018: 13_SPD-19_PI-ledmissions_70JCL.pdf posted as Program Specific

Documents item “13. [SPD-19,][Meeting the 70% JCL Requirement in PI-led Missions](#)”.

December 12, 2018: Placeholder posted for as Program Specific Documents item “12. *Microsoft Excel version of the template tables in the AO:*

Table B1: Example Science Traceability Matrix

Table B2: Example Mission Traceability Matrix

Table B3a: Total Mission Cost RY\$ Profile Template

Table B3b: Total Mission Cost FY\$ Profile Template

Table B5: Master Equipment List”.

December 12, 2018: 11_SMD_Mission_Extension.pdf posted as Program Specific Documents item “11. [-][SMD Mission Extension Paradigm](#)”.

December 12, 2018: 10_System-Level_TRL_6_Examples.pdf posted as Program Specific Documents item “10. [System-Level][TRL 6 Examples](#)”.

December 12, 2018: 09_SMD_SC_Guide_1_120508.pdf posted as Program Specific Documents item “9. [The Explanatory Guide to the NASA Science Mission Directorate Educational Merit Evaluation Factors for Student Collaboration Elements](#)[, version 1.1. (NOTE: References and email addresses in this document are unreliable. For example, the guide does not reflect changes to NASA grant and cooperative regulations reflecting new OMB Uniform Guidance, 2 CFR Part 200, implemented by NASA on December 26, 2014.)]”.

December 12, 2018: “08_SCaN-MOCS-0001_Rev 1.pdf” posted as Program Specific Documents item “8. [Space Communications and Navigation \(SCaN\) Mission Operations and Communications Services \(MOCS\)](#)”.

December 12, 2018: No link posted for Program Specific Documents item “7. *Information on International Space Station Resources*
a. — International Space Station Capabilities and Payload Accommodations
b. — Earth and Space Science Accommodations on ISS”, as it does not apply to this opportunity. Item should have been square bracketed, due to being a change from the DRAFT AO text.

December 12, 2018: Placeholder link posted for Program Specific Documents item “6. [NASA Launch Services Program \(LSP\) Advisory Services Plan](#)”.

December 12, 2018: Placeholder link posted for Program Specific Documents item “5. [ELV Launch Services Information Summary](#)”.

December 12, 2018: Placeholder link posted for Program Specific Documents item “4. [Draft Guidelines and Criteria for the Phase A Concept Study](#)”.

December 12, 2018: 03A_D_S-MA_Guidelines_and_Rqmts_Rev_C.pdf posted as Program Specific Documents item “3. DISC-RQMT-002C, [Discovery Program Safety](#)”.

and Mission Assurance Guidelines and Requirements document” and 03B_PMPO_Program_Plan_10-10-14_Change_1_12-18-15.pdf posted as Program Specific Documents item “3. [DISC-PLAN-006B], Discovery Program Office Safety and Mission Assurance Implementation Plan”. “DISC-RQMT-002C, “ and “DISC-PLAN-006B, “ should have been square bracketed, due to being a change from the DRAFT AO text.

December 12, 2018: 02_Discovery_PCA_signed_October_2018_Redacted.pdf posted as Program Specific Documents item “2. Discovery Program Commitment Agreement”.

December 12, 2018: 01_PMPO_Program_Plan_signed_Dec_2015.PDF posted as Program Specific Documents item “1. PMP-PLAN-001, Planetary Missions Program Plan [~~Discovery Roadmap~~]”. Item should have been square bracketed, due to being a change from the DRAFT AO text.

December 12, 2018: Link to 2013 Planetary Decadal Survey posted as “The National Research Council 2013 Planetary Decadal Survey, *Vision and Voyages for Planetary Science in the Decade 2013-2022*, may be accessed at http://www.nap.edu/catalog.php?record_id=13117.” Item should have been square bracketed, due to being a change from the DRAFT AO text.

December 12, 2018: 02_2014_Science_Plan_PDF_Update_508_TAGGED_1.pdf posted as Strategic Documents item “2. 2014 Science Mission Directorate Science Plan”.

December 12, 2018: 01_N_PD_1001_000C__main.pdf posted as Strategic Documents item “1. NPD 1001.0C, 2018 NASA Strategic Plan”.